



VitroView™ Oil Red O Stain Kit

SKU No. VB-3007

Introduction

Oil Red O is a lysochrome diazo dye used for detecting neutral triglycerides and lipids in tissue. It is performed on fresh frozen tissue sections or cultured cells.

Kit Components

VB-3007-1 Pre-Stain Solution ----- 100 ml
VB-3007-2 Oil Red O Solution -----100 ml
VB-3007-3 Differentiation Solution----- 100 ml
VB-3007-4 Mayer's Hematoxylin Solution ---- 100 ml

Storage

Room temperature.

Protocol

1. Cut frozen sections to 8 to 10µm. Air dry the sections to the slides
2. Fix in 10% buffered formalin for 20 minutes at room temperature, briefly wash with running tap water for 3 minutes.
3. Place in Pre-Stain Solution for 2 minutes
4. Stain in pre-warmed Oil Red O solution for 8-10 minutes in 60 °C oven
5. Differentiate in pre-warmed Differentiation Solution for 2-5 minutes in 60 °C oven
6. Rinse in 2 water changes of distilled at room temperature.
7. Lightly stain nuclei with Mayer's Hematoxylin Solution for 5 dips
8. Rinse with tap water for 3 minutes
9. Mount with aqueous mounting medium.

Technical Points

1. Include a positive control
2. Cryostat sections 8 to 10 microns for formalin fixed smears. Formalin fixation gives good results.
3. Step 9 - Obviously, the section must not be taken through clearing solvents prior to mounting, as this will remove the lipid to be detected.

Results

- Lipid..... red
- Nuclei.....blue

Precautions: Handle with care. Avoid contact with eyes, skin and clothing. Do not ingest. Wear gloves.